

What is claimed is:

1. A tire-side-mounted electronic device comprising at least two types of power sources having different discharging characteristics from each other, and an electric load connected to the power sources.
2. A tire-side-mounted electronic device according to claim 1, comprising a switching circuit, the at least two types of power sources being connected to the electric load via the switching circuit.
3. A tire-side-mounted electronic device according to claim 2, wherein the switching circuit includes a switching element comprising a metal-oxide semiconductor field-effect transistor, and the electric load includes a temperature sensor for detecting tire temperature and a processor unit for driving the switching element according to a detected signal from the temperature sensor to switch the switching circuit.
4. A tire-side-mounted electronic device according to claim 2 or 3, wherein the at least two types of power sources comprise batteries having different discharging characteristics.
5. A tire-side-mounted electronic device according to claim 4, wherein the batteries include batteries having different temperature-dependant discharging characteristics.
6. A tire-side-mounted electronic device according to claim 5, wherein the batteries are chemical batteries.
7. A tire-side-mounted electronic device according to claim 6, wherein the chemical batteries include a manganese dioxide cell and a graphite fluoride cell.
8. A tire-side-mounted electronic device according to any one of claims 1 to 3,

wherein the at least two types of power sources comprise a primary battery and a secondary battery connected to charging means.

9. A tire-side-mounted electronic device according to claim 8, wherein the primary battery is a chemical battery.

10. A tire-side-mounted electronic device according to any one of claims 1 to 3, wherein the at least two types of power sources comprise a chemical battery and an electric power generator.

11. A tire-side-mounted electronic device according to any one of claims 1 to 10, wherein the tire-side-mounted electronic device is a tire air pressure detection device, and the electric load includes a pressure sensor for detecting tire pressure and a transmitting unit for transmitting a signal detected by the pressure sensor.